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Topical 5-Fluorouracil Treatment of Vaginal Intraepithelial Neoplasia 580

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Adjunctive Radiation Therapy in the Management of Stage I Cancer of the Endometrium 590

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Eclampsia. I. Observations from 67 Recent Cases 609

Significant physician mismanagement often led to the development of eclampsia. Factors that affected this morbidity include inadequate dosage and timing of magnesium sulfate therapy and delayed referral to a tertiary care center.

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Behavioral Factors Contributing to Abortion Deaths: A New Approach to Mortality Studies 631

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Michael Terrin & Mary B. Meyer — **Birth Weight–Specific Rates as a Bias in the Effects of Smoking and Other Perinatal Hazards** 636

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Presidential Address

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Survey respondents indicated that, with few exceptions, virtually all areas of obstetrics and gynecology are covered adequately in their resident training programs. Moreover, most residents are using the wide variety of conferences, teaching aids, and other postgraduate educational materials offered.

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Javier F. Magrina, Robert E. Moffat, Byron J. Masterson, & Kermit E. Krantz — **Selective Arterial Infusion of Pitressin for the Control of Puerperal Hemorrhage After Hypogastric Artery Ligation** 646

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Stephen H. Jackson, Michael C. Liebermann, & David E. Smith — **Sodium Nitroprusside–Induced Hypotension as a Supplemental Therapeutic Modality in Postpartum Hemorrhage** 649

When traditional therapies failed to control a severe postpartum hemorrhage, hysterectomy was averted by reducing arterial blood pressure with sodium nitroprusside.

Ronald M. Tuttelman & Norbert Gleicher — **Central Nervous System Hemorrhage Complicating Pregnancy** 651

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Dana Edward Jock, Peter E. Schwartz, & Lewis Portnoy — **Primary Ovarian Hydatidiform Mole: Addition of a Sixth Case to the Literature** 657

A case of primary ovarian hydatidiform mole was resolved without use of chemotherapy despite apparent extensive involvement of the omentum.

William P. Dillon & Maurice Dewey — **A Case of Accessory Ovary** 660

The case of an unusually large accessory ovary is presented. The nature and origin of accessory ovary are compared with those of supernumerary ovary.

Tom Annos & Melvin L. Taymor — **Ovarian Pathology Associated with Insulin Resistance and Acanthosis Nigricans** 662

The possibility of a causal relationship between virilization, hyperinsulinism, and acanthosis nigricans was explored in a patient with ovarian hyperthecosis.

S. A. Park, C. Giannattasio, & M. L. Tancer — **Foreign Body Reaction to the Intraperitoneal Use of Avitene** 664

During ovarian surgery, use of microcrystalline collagen hemostat on 1 ovary allowed the authors to review its effect at reoperation 13 days later. An extensive foreign body response was discovered on the treated ovary.

Mary Jane Gray, Peggy Norton, & Kenneth Treadwell — **Tampon-Induced Injuries** 667

Evidence is presented suggesting that use of tampons with plastic inserters may cause vaginal lacerations.

NOVEMBER (SUPPLEMENT)

Hugh R. K. Barber — **Symposium on Drugs in Pregnancy: Introduction** 1S

Proceedings of this symposium are presented to help avert potential tragedies based on misuse of drugs during pregnancy. Public trust in the physician's judgment must be regained by using available, recent information to inform and treat patients.

Leo Stern — **In Vivo Assessment of the Teratogenic Potential of Drugs in Humans** 3S

The examples of thalidomide and DES indicate that predictive safety testing of drugs is often inadequate and that only long-term human assessment provides reliable data. Also, the teratogenic potential of non-prescription drugs and environmental hazards must be investigated.

Gerhard Levy — **Pharmacokinetics of Fetal and Neonatal Exposure to Drugs** 9S

Because of the functional immaturity of biotransformation and excretion processes, neonatal exposure to drugs administered to the mother is often greater than fetal exposure. Several factors concerning the pharmacokinetic principles of drug exposure in the mother and fetus are outlined.

Cheston M. Berlin, Jr — **Pharmacologic Considerations of Drug Use in the Lactating Mother** 17S

Most compounds appear to enter milk by diffusion, with milk : plasma ratios of 0.5 : 1.0. Usually this does not present a hazard to the nursing infant. Much remains to be learned, especially about nursing mothers on chronic drug therapy.

Sol M. Shnider — **Choice of Anesthesia for Labor and Delivery** 24S

The impact of anesthesia on physiologic changes in pulmonary, cardiac, renal, and other functions during parturition is summarized. Use of various types of anesthesia in normal and complicated deliveries is discussed, as is prevention or minimization of adverse reactions.

Arthur L. Herbst — **Diethylstilbestrol and Other Sex Hormones During Pregnancy** 35S

Cases of clear cell adenocarcinoma in female progeny exposed to diethylstilbestrol in utero are reviewed; nonneoplastic epithelial and structural abnormalities of the genitalia in exposed persons without cancer are also considered.

Hugh R. K. Barber — **Fetal and Neonatal Effects of Cytotoxic Agents** 41S

Teratogenic and mutagenic effects are not inevitable after cytotoxic therapy in first-trimester pregnancy. In most cases, however, chemotherapy is contraindicated, especially as fetal damage may not be manifested until much later in life.

Edward H. Bishop — **Acceleration of Fetal Pulmonary Maturity** — 48S

Review of the role of glucocorticoid therapy in accelerating fetal lung maturity confirms the lifesaving benefits in preventing neonatal respiratory distress. The preferred agent and dosage, however, must still be found, and long-term effects investigated.

Carol M. Rumack, Mary Anne Guggenheim, Barry H. Rumack, Robert G. Peterson, Michael L. Johnson, & William R. Braithwaite — **Neonatal Intracranial Hemorrhage and Maternal Use of Aspirin** — 52S

Intracranial hemorrhage was observed more frequently among neonates born to mothers who had ingested aspirin than among neonates whose mothers had taken acetaminophen or neither agent. The mechanism for the association between intracranial hemorrhage and aspirin is hypothesized.

Edith Collins — **Maternal and Fetal Effects of Acetaminophen and Salicylates in Pregnancy** — 57S

Formal clinical and epidemiologic studies of the effect of acetaminophen on fetuses are recommended to confirm its safety in pregnancy. Conflicting data leave the teratogenic potential of salicylates uncertain. Their antiprostaglandin properties may affect both mother and fetus. At present salicylate use in pregnancy should be discouraged, particularly during the last trimester.

Abraham M. Rudolph — **The Effects of Nonsteroidal Antiinflammatory Compounds on Fetal Circulation and Pulmonary Function** — 63S

Although single doses of nonsteroidal antiinflammatory compounds do not seem to affect fetal well-being, chronic administration may result in severe pulmonary vascular constriction, causing persistent pulmonary hypertension in the newborn.

Kamran S. Moghissi — **Risks and Benefits of Nutritional Supplements During Pregnancy** — 68S

During pregnancy, maternal metabolism is extensively adjusted to meet the nutritional requirements of mother and fetus. The role of minerals and vitamins in human gestation is discussed, as are suggestions for nutritional supplementation, some contrary to those of previous reports.

Frank R. Witter, Theodore M. King, & David A. Blake — **The Effects of Chronic Gastrointestinal Medication on the Fetus and Neonate** — 79S

The potential teratogenic and/or embryopathologic effects of chronic ingestion of gastrointestinal medication are difficult to assess, as detailed information is scarce. This problem is discussed and a review of various drugs according to gastrointestinal indication is presented.

Sumner J. Yaffe — **Antimicrobial Therapy and the Neonate** — 85S

Use of antimicrobial agents in the newborn is reviewed, with emphasis on management dilemmas caused by the immaturity and variability of the newborn's metabolism and physiology. Pharmacokinetics of specific drugs is discussed and dosage regimens are recommended.

Richard H. Schwarz — **Considerations of Antibiotic Therapy During Pregnancy** — 95S

Toxicity to and pharmacokinetics for mother and fetus are important considerations in antibiotic use during gestation. Lower serum concentrations of antibiotics occur in the mother, and distribution of antibiotics in the fetus impedes treatment of chorioamnionitis.

Frank R. Witter, Theodore M. King, & David A. Blake — **Adverse Effects of Cardiovascular Drug Therapy on the Fetus and Neonate** — 100S

The possible pharmacologic, teratogenic, and embryopathic effects of diuretics, antihypertensives, antiarrhythmics, cardiac glycosides, and anticoagulants are examined. Recommendations for safe use are proposed.

DECEMBER

Harry Foreman, Bruce V. Stadel, & Sarah Schlesselman

Intrauterine Device Usage and Fetal Loss 669

The risk of fetal loss was assessed according to IUD use prior to conception and to the trimester in which the IUD was removed if in place at conception. Data are further analyzed for septic and nonseptic second-trimester fetal loss.

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Anthropometric Determinants of Birth Weight 678

The strength of influence of each parental physical characteristic on birth weight varied depending on whether the mother was initially low, average, or high weight-for-height. The influence of genetic and environmental factors may depend on maternal body type.

William P. Dillon & Edmund A. Egan

Aggressive Obstetric Management in Late Second-Trimester Deliveries 685

A 3-year experience in which fetal well-being was a major factor in management of delivery at 24 to 27 weeks' gestation revealed 34 surviving infants in 62 deliveries. There is an indication that betamethasone was associated with higher survival rates.

William J. Ott

Primary Cesarean Section: A Critical Analysis 691

Retrospective analysis of all primary cesarean sections performed at 1 institution over 2 years suggested no significant association between fetal monitoring and the rising cesarean section rate. The most common primary indications were cephalopelvic disproportion, malpresentation, and fetal distress.

James P. Van Dorsten, Frank C. Miller, & Sze-ya Yeh

Spacing the Injection Interval with Paracervical Block: A Randomized Study 696

A study to test whether spacing injections can prevent post-paracervical block fetal bradycardia concluded that the added interval is not among the factors most significant in preventing bradycardia. Other factors and the safety of paracervical block analgesia are considered.

Russell N. DeJong, Jr., Kirkwood K. Shy, & Katherine Camacho Carr

An Out-of-Hospital Birth Center Using University Referral 703

Benefits of and admission criteria for controversial out-of-hospital birth centers were assessed in this study of 1 such center in Seattle. Risks and high rates of transfer to hospital are also discussed.

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Spontaneous and Induced Pregnancies in Hyperprolactinemic Women 708

Pregnancy was studied in women with hyperprolactinemia, with and without evidence of pituitary tumors. Moderate hyperprolactinemia does not preclude conception, and pregnancy induction is safe in women without large pituitary adenomas who have not undergone previous surgery and/or radiotherapy.

Robert A. Skaf, Robert Shelden, & Ekkehard Kemmann

Androgenic Response in Anovulatory Women During Menotropins Stimulation 714

Human menopausal gonadotropin therapy for patients with either polycystic ovary syndrome or anovulatory hypogonadism resulted in pregnancy despite marked gonadal androgen production, suggesting that menotropins promote steroidogenesis in follicular granulosa and theca cells.

Wesley C. Fowler, Jr., Grant Schmidt, David A. Edelman, David G. Kaufman, & Cecelia M. Fenoglio

Risks of Cervical Intraepithelial Neoplasia Among DES-Exposed Women 720

Increased occurrence of cervical epithelial neoplasia among 335 women exposed to diethylstilbestrol (DES) in utero was investigated. Because differentiation of true epithelial neoplasia from benign squamous metaplasia is problematic in DES-exposed women, a conservative management is still recommended.

J. L. Benedet, K. G. Nickerson, & G. H. Anderson

Cryotherapy in the Treatment of Cervical Intraepithelial Neoplasia 725

In the majority of patients studied, cryotherapy for various degrees of preinvasive cervical carcinoma successfully eradicated the lesion in a single treatment session. The advantages of cryotherapy, criteria for patient selection, and reasons for treatment failure are outlined.

R. Genadry, S. Poliakoff, J. Rotmensch, N. B. Rosenshein, T. H. Parmley, & J. D. Woodruff — **Primary, Papillary Peritoneal Neoplasia** 730
Classifying papillary intraperitoneal neoplasm as ovarian tumor leads to a confusing clinical picture, as the course of disease is generally benign. Treating the disease as a primary peritoneal tumor is sufficient and averts the potential toxicity of adjunctive therapy.

Editorial

R. William Soller & Herbert Stander — **Maternal Drug Exposure and Perinatal Intracranial Hemorrhage** 735
A survey appearing in the November 1981 *Obstetrics and Gynecology Supplement* concluding that third-trimester maternal use of aspirin may predispose infants to intracranial hemorrhage is contested as having inherent inadequacies that render the results invalid.

Donald G. Corby — **Editorial Comment** 737
This rebuttal to the charges made in the previous editorial addresses each criticism in detail as it defends the survey methodology of Rumack et al.

Case Reports

Dinu Bernstein, Michael Holzinger, Jardena Ovadia, & Benjamin Frishman — **Conservative Treatment of Cervical Pregnancy** 741
Successful treatment of cervical pregnancy by cervical cerclage in 2 cases suggests a way to control bleeding without resort to hysterectomy.

Robert C. Goodlin & David Holdt — **Impending Gestosis** 743
In pregnant women, such symptoms as right upper quadrant pain, liver dysfunction, and thrombocytopenia may be the precursors of eclampsia/proteinuria/hypertension gestosis. Successful treatment of impending gestosis included bed rest and plasma volume expansion.

Luigi Maresca & Charles J. Koucky — **Spontaneous Rupture of the Renal Pelvis During Pregnancy Presenting as Acute Abdomen** 745
A rare case of hydroureter in pregnancy associated with rupture of the renal pelvis is presented and management described. Also, the literature on the causes of hydroureter in pregnancy is reviewed.

Norbert Gleicher, Jose Miller, Raymond Z. Sandler, & Stanford Sullum — **Wolff–Parkinson–White Syndrome in Pregnancy** 748
The diagnosis, etiology, and management of Wolff–Parkinson–White syndrome are discussed in connection with 3 patients who experienced supraventricular tachyarrythmia during pregnancy. Although the predisposing mechanisms remain uncertain, a possible relationship between arrhythmia and hormonal changes in pregnancy is postulated.

Bert J. Davidson, Jerry Waisman, & Howard L. Judd — **Long-Standing Virilism in a Woman with Hyperplasia and Neoplasia of Ovarian Lipidic Cells** 753
Bilateral hyperplasia of ovarian hilar cells, stromal lipidic cells, and unilateral adenoma of Leydig cells are described in a patient with long-standing virilism. Strong similarity between ovarian lipidic cells and testicular Leydig cells suggests common function and origin.

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